EI220

INSTRUCTION MANUAL

EI220 : 1/3" Color Standard Res. Lens Integrated Camera

I. General

The new EI220 series camera features a high performance, Standard resolution 1/3" color CCD processor and built-in vari-focal lens which provides excellent picture quality, flexibility and cost savings. A mounting bracket is included with every EI series camera making it one of the most complete and easy to install camera packages on the market. It's no wonder why EverFocus is quickly becoming the first choice in CCTV.

II. Precautions

- Do not expose the camera to humidity and dust. If the camera is mounted outdoor, a camera housing is required.
- Do not disassemble it or place it on an unstable base.
- Do not touch the surface of CCD sensor by hand directly. Use a soft cloth to remove the dirt from the camera body. Use lens tissue or a cotton tipped applicator and ethanol to clean the camera lens and CCD sensor.
- Never face the camera toward the sun.
- Use proper power source otherwise the camera will not function correctly.

III. Installation Instructions

1. Connect the video output of the camera to a color monitor or other video device through a 75 ohm type coaxial cable with BNC female connector at camera end.
2. Plug the power cord to the outlet. Power indicator LED should light if the power source is properly connected.
3.. Remove the lens cover cap from the top of the camera for adjusting the vari-focal lens
4. Once the image appears on the monitor, adjust the focus and diaphragm of the lens to obtain the best picture.
5. If the subject is not in focus when adjusting focus of the lens, do back focus adjustment as following:
   i. Set the focus ring of the lens to infinity position.
   ii. Take picture of subject at a distance more than 20m away from the camera.
   iii. Loosen the lens mount fixing screw located at bottom of the front panel by using the L wrench.
   iv. Turn the lens and the mount together so that the subject is in focus.
   v. Secure the lens mount fixing screw firmly again.
6. Mount the camera on the mounting bracket by using the mounting hole on the top and bottom of camera casing.

IV. Using Special Features

⊙ *Lens Adjustment*

You may adjust the focus and zoom of the lens to bring the object in focus. This lens has two focal distance. The change of Tele/Wide can be done with zooming. In case you want to make focus at an optional between Tele/Wide you must re-adjust focusing once again.

⊙ *Back Light Compensation*

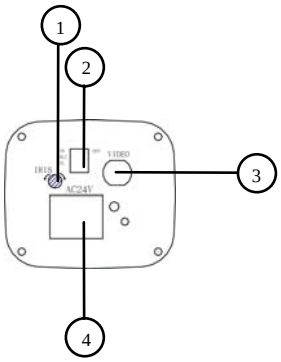
When BLC is turned on, the AGC, ES and IRIS operating point is determined by averaging over the center area instead of entire field-of-view, so that a dimly-lit foreground object at center area can be clearly distinguished from brightly-lit backgrounds.

BLC should not be used unless it is needed to compensate for back-lit.

⊙ *Back Panel*

EI220

1.Auto IRIS adjustment
2.BLC/FL switcher
3.Video output connector
4. AC24V input terminal



V. Specifications

Pickup Device	1/3" SONY Super HAD CCD
Video Format	NTSC or PAL
Scanning System	NTSC: 525 TV lines, 60 fields/sec
	PAL: 625 TV lines, 50 fields/sec.
Picture Elements	510 x 492 (NTSC)
	500 x 580 (PAL)
Horizontal Resolution	380 TV lines
Sensitivity	0.5 Lux/F=1.2
S/N Ratio	Over 48dB (AGC off)
Electronic Shutter	1/50(1/60)~1/100,000
Len Type	Vari-focal lens, Auto Iris, 4~9mm
Auto White Balance	Yes
Auto Gain Control	On
Back Light Comp.	On/Off switch
Gamma Correction	0.45
Video Output	BNC 1.0Vp-p,75 ohm
Sync. Mode	Internal Sync.
Power Source	24VAC
Power Consumption	3W max.
Dimensions	66mm(W) x 59mm(H) x 146mm(D); 2.56" (W) x 2.3"(H) x 5.7"(D)
Operating Temperature	0°C~50°C ; 32°F~122°F (20%~80% Humidity)